

36
CALTECH SYNCHROTRON LABORATORY (CTSL) REPORTS

- Matthew Sands, "A Proton Synchrotron for 300 GeV,"
September 1960.
- Robert Hulsizer, "Magnet Positioning Problems for a 300 GEV
Proton Synchrotron," October 1960.
- M.H. Blewett, "Preliminary Cost Estimate for a 300 GEV
Cascade Synchrotron," October 1960.
- Matthew Sands, "Injection Field Criteria for High
Energy Synchrotrons," January 1961.
- Kenneth Robinson, "A Radio Frequency System for a 300 GEV
Proton Synchrotron," January 1961.
- Robert Walker, "Beam Transfer in the Cascade Synchrotron,"
January 1961.
- Charles Peck, "Capture Efficiency of a Constant Gradient
Electron Synchrotron," February 1961.
- Arpad Barna, J. Howard Marshall, Matthew Sands, "A
Multifold Coincidence-Veto Circuit Using Transistors,"
February 1961.
- Arpad Barna and J. Howard Marshall, "A 50 Nanosecond
Linear Gate Circuit Using Transistors," February 1961.
- Murray Gell-Mann and Fredrik Zachariasen, "Broken
Symmetries and Bare Coupling Constants," March 1961.
- A.V. Tollestrup, "R.F. Synchronization during Transfer in
the Cascade Synchrotron," March 1961.
- Arpad Barna, "Some Transistor Small Signal Equivalent
Circuit Calculations," March 1961.
- Arpad Barna, "Measurement of Some Transistor Parameters,"
March 1961.
- Vincent Peterson, "Vacuum Requirements for the Cascade
Synchrotron," April 1961.
- Jon Mathews, "Effects of Magnet Non-Linearities on
Betatron Oscillation Frequencies for the 300 BeV Proton
Synchrotron," April 1961.
- Arpad Barna and J. Howard Marshall, "A Distributed
Amplifier Using Transistors," April 1961.
- Sheldon Glashow and Murray Gell-Mann, "Gauge Theories of
Vector Particles," April 1961.
- Keith Watson and Denis Hankins, "Pion Production in 300 GeV
Nucleon-Nucleon Collisions," June 1961.
- J.H. Mullins, "An Achromatic Inflector for the Caltech
Synchrotron," August 1961.
- H. Ruderman, R. Gomez, and A.V. Tollestrup, "Lead Glass
Total Absorption Counters," February 1962.
- L.J. Fretwell, D.G. Coyne, and J.H. Mullins, "Refinements
in Bubble Density Measurement," May 1962.
- David Sharp and William Wagner, "A Note on the Leptonic
Decays of the K-Meson," June 1962.
- J.H. Marshall, "A 25 Input Pulse Height Recording System,"
July 1962.
- Jon Mathews, "A Study of the Second-Difference Method for
Radial Magnet Alignment," November 1962.
- George Zweig, "K Leptonic Decay and Partially-Conserved
Currents," January 1963.

Clemens Heusch and Charles Prescott, "Selective Detectors
for High Energy Photons and Electrons," January 1964.
J.T. Beale, S.D. Ecklund, and R.L. Walker, "Pion Photo-
production Data Below 1.5 GeV," November 1966.